

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L2    | 2    | ("6180446").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/12/20<br>19:41 |
| L3    | 2    | ("6687146").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/12/20<br>19:43 |
| L4    | 2    | ("6580650").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/12/20<br>19:44 |
| L5    | 32   | DRAM and bitline and multi-layer<br>near4 interconnect                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/20<br>20:00 |
| L6    | 79   | DRAM and bitline and multi-layer<br>and interconnect and<br>@ad<"20031223" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/20<br>20:02 |
| L7    | 2    | ("20010005604").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/12/20<br>20:37 |
| L8    | 2    | ("20020015322").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/12/20<br>20:38 |
| L9    | 2    | "5,324,681".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/20<br>20:39 |

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| L11 | 135  | micron.as. and dram and dram adj technology and bitline  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>21:19 |
| L12 | 90   | micron.as. and dram and dram adj technology and bitline and Forbes.<br>in.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>21:28 |
| L14 | 2    | ("6861686").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/20<br>22:09 |
| L15 | 2    | ("20020015322").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/20<br>22:13 |
| L16 | 8583 | ((257/202) or (257/312) or (257/528) or (257/529) or (257/530) or (257/532) or (257/534) or (438/128) or (438/130) or (438/131)).CCLS. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/20<br>23:09 |
| L17 | 8487 | ((257/202) or (257/312) or (257/528) or (257/529) or (257/530) or (257/532) or (257/534) or (438/128) or (438/130) or (438/131)).CCLS. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | OFF | 2008/12/20<br>23:11 |
| L18 | 282  | 17 and (anti\$1fuse antri adj fuse) and capacitor and substrate  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>23:11 |
| L19 | 295  | 17 and (anti\$1fuse anti adj fuse) and capacitor and substrate   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>23:17 |
| L20 | 13   | 19 not 18  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>23:17 |
| L21 | 1    | (jung near2 kyung near2 yun.in. dongbu dongbuanam.as.) and (anti \$1fuse anti adj fuse).clm. and capacitor.clm. and substrate.clm.     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>23:20 |

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| S1  | 5    | "743113".ap.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/07/27<br>10:07 |
| S2  | 2    | ("6495426").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>09:17 |
| S3  | 1    | jp-11145414\$-\$.did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>09:19 |
| S4  | 3    | S2 S3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>09:19 |
| S5  | 1    | (anti-fuse anti adj fuse) and<br>variable near3 capacitance near3<br>capacitor and semiconductor and<br>substrate | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>09:27 |
| S6  | 2    | (anti-fuse anti adj fuse) and<br>variable near3 capacitance and<br>semiconductor and substrate                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>09:28 |
| S7  | 5    | (anti-fuse anti adj fuse) and<br>variable near3 capacitance and<br>semiconductor                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>09:29 |
| S8  | 132  | (anti-fuse anti adj fuse fuse) and<br>variable near3 capacitance and<br>semiconductor                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>10:29 |
| S9  | 1440 | ((257/528) or (257/529) or<br>(257/530)).CCLS.  | US-PGPUB;<br>USPAT                                      | OR | OFF | 2005/07/27<br>17:05 |
| S10 | 1089 | (257/532).CCLS.   | US-PGPUB;<br>USPAT                                      | OR | OFF | 2005/02/17<br>10:30 |
| S11 | 2421 | S9 S10  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:30 |
| S12 | 108  | S9 and S10  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:31 |

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| S13 | 4    | S12 and (variable varying) near3 capacitance   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:36 |
| S14 | 0    | wo-0334452\$-\$\$.did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:36 |
| S15 | 0    | wo-03034452\$-\$\$.did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:42 |
| S16 | 1237 | variable adj capacitance.ti.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:42 |
| S17 | 15   | variable adj capacitance.ti. and capacitor.ti. and semiconductor.ti, ab,clm.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:44 |
| S18 | 0    | variable adj capacitance.ti. and capacitor.ti. and (fuse antifuse anti-fuse) and ("257"/\$9.ccls. "438"/\$8.ccls.)                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>10:45 |
| S19 | 0    | variable adj capacitance.ti. and capacitor.ti. and (fuse antifuse anti-fuse) and ("257"/\$9.ccls. "361"/\$8.ccls. "438"/\$8.ccls.) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>10:45 |
| S20 | 1    | variable adj capacitance.ti. and capacitor.ti. and (fuse antifuse anti-fuse)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>10:48 |
| S21 | 137  | (257/312).OCLS.  | US-PGPUB;<br>USPAT                                      | OR | OFF | 2005/02/17<br>10:56 |
| S22 | 2    | S21 and (fuse anti-fuse anti adj fuse)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:49 |
| S23 | 77   | varactor and (fuse anti-fuse anti adj fuse)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/17<br>10:57 |

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| S24 | 12   | (US-20040147087-\$ or US-20020179957-\$ or US-20020074589-\$ or US-20020014651-\$).did. or (US-6835977-\$ or US-6825089-\$ or US-6818936-\$ or US-6583495-\$ or US-6437369-\$ or US-6218697-\$ or US-6211745-\$ or US-3860945-\$).did. | US-PGPUB;<br>USPAT   | OR | OFF | 2005/02/17<br>11:44 |
| S25 | 0    | varactor near10 (antifuse anti-fuse)   | US-PGPUB;<br>USPAT   | OR | OFF | 2005/02/17<br>11:45 |
| S26 | 0    | varactor near10 (antifuse anti-fuse)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>11:45 |
| S27 | 6730 | varactor near10 (diode antifuse anti-fuse)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>11:48 |
| S28 | 414  | varactor near10 (diode antifuse anti-fuse) and substrate and ("257"/\$8.ccls. "438"/\$8.ccls.)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>11:49 |
| S29 | 389  | varactor near4 (diode antifuse anti-fuse) and substrate and ("257"/\$8.ccls. "438"/\$8.ccls.)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>11:49 |
| S30 | 101  | varactor near4 (diode antifuse anti-fuse).ti,ab,clm. and substrate and ("257"/\$8.ccls. "438"/\$8.ccls.)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>13:56 |
| S31 | 1    | (varactor varacter variable adj capacitance) and (fuse anti-fuse anti adj fuse antifuse) and (mim metal-insulator-metal metal-oxide-metal) adj capacitor   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:00 |
| S32 | 306  | (varactor varacter variable adj capacitance) and (fuse anti-fuse anti adj fuse antifuse)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:00 |
| S33 | 28   | (varactor varacter variable adj capacitance).ti,ab,clm. and (fuse anti-fuse anti adj fuse antifuse).ti,ab,clm.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:05 |
| S34 | 105  | (varactor varacter variable adj capacitance).ti,ab,clm. and (fuse anti-fuse anti adj fuse antifuse)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:06 |

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| S35 | 25   | (varactor varacter variable adj capacitance).ti,ab,clm. and (fuse anti-fuse anti adj fuse antifuse) and substrate                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:06 |
| S36 | 6    | (varactor varacter variable adj capacitance).ti,ab,clm. and (fuse anti-fuse anti adj fuse antifuse) and substrate and (plug contact adj hole)          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:08 |
| S37 | 9212 | (varactor varacter variable adj capacitance).ti,ab,clm.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:08 |
| S38 | 6    | (varactor varacter variable near4 capacitance).ti,ab,clm. and (fuse anti-fuse anti adj fuse antifuse) and substrate and (plug contact adj hole)        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:09 |
| S39 | 8    | (varactor varacter (vary variable) near4 capacitance).ti,ab,clm. and (fuse anti-fuse anti adj fuse antifuse) and substrate and (plug contact adj hole) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/17<br>14:10 |
| S40 | 3    | (US-6495426-\$).did. or (US-6495426-\$ or JP-11145414-\$).did.   | USPAT;<br>DERWENT  | OR | OFF | 2005/02/18<br>07:58 |
| S41 | 2    | ("6278149").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB        | OR | OFF | 2005/02/18<br>07:58 |
| S42 | 4    | (US-6495426-\$ or US-6278149-\$).did. or (US-6495426-\$ or JP-11145414-\$).did.  | USPAT;<br>DERWENT  | OR | OFF | 2005/02/18<br>08:01 |
| S43 | 2    | jp-09239594\$-\$).did.   | USPAT; JPO;<br>DERWENT   | OR | OFF | 2005/02/18<br>08:02 |
| S44 | 0    | "JP09239594"   | USPAT; JPO;<br>DERWENT   | OR | OFF | 2005/02/18<br>08:03 |
| S45 | 0    | sato.in. and trench adj capacitors. ti. and fuse adj element.ab.   | JPO  | OR | ON  | 2005/02/18<br>08:03 |
| S46 | 0    | sato.in. and trench adj capacitors. ti.  | JPO  | OR | ON  | 2005/02/18<br>08:04 |
| S47 | 14   | sato.in. and fuse adj element  | JPO  | OR | ON  | 2005/02/18<br>08:04 |

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| S48 | 27  | (US-20020014651-\$ or US-20020074589-\$ or US-20020179957-\$ or US-20030173644-\$ or US-20030183407-\$ or US-20030233882-\$ or US-20030233883-\$ or US-20040075158-\$ or US-20040129999-\$ or US-20040147087-\$ or US-20040150939-\$ or US-20040232520-\$).did. or (US-3860945-\$ or US-6211745-\$ or US-6218697-\$ or US-6278149-\$ or US-6437369-\$ or US-6495426-\$ or US-6583495-\$ or US-6818936-\$ or US-6825089-\$ or US-6835977-\$ or US-6837111-\$).did. or (JP-58123757-\$ or JP-411145414-\$).did. or (JP-11145414-\$ or US-6495426-\$).did. | US-PGPUB;<br>USPAT; JPO;<br>DERWENT                            | OR | OFF | 2005/02/18<br>10:12 |
| S49 | 1   | S48 and contact adj plug near3 metal  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/18<br>10:14 |
| S50 | 776 | contact adj plug near3 metal  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/18<br>10:14 |
| S51 | 0   | contact adj plug near3 metal and trench adj capacitor.ti,ab,clm.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/18<br>10:14 |
| S52 | 402 | contact adj plug near3 metal and "257"/\$7.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/18<br>10:15 |
| S53 | 22  | contact adj plug near3 metal and mim adj capacitor and "257"/\$7.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/18<br>10:21 |
| S54 | 0   | contact adj plug near3 metal and mim adj capacitor and "257"/\$7.ccls. and anti-fuse  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/18<br>10:18 |
| S55 | 0   | contact adj plug near3 metal and mim adj capacitor and "257"/\$7.ccls. and (anti adj fuse fuse anti-fuse)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/18<br>10:18 |

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| S56 | 40  | contact adj plug near3 metal and buried adj contact and "257"/\$7.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/18<br>10:22 |
| S57 | 29  | contact adj plug near3 metal and buried adj contact and capacitor and "257"/\$7.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/18<br>11:28 |
| S58 | 38  | trench adj capacitor.ti. and buried adj contact   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/02/18<br>11:28 |
| S59 | 943 | ((438/255) or (438/957) or (438/379)).CCLS.   | US-PGPUB;<br>USPAT   | OR | OFF | 2005/02/18<br>12:33 |
| S60 | 1   | S59 and (varactor capacitor near3 variable) and (fuse anti-fuse anti adj fuse antifuse)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB        | OR | OFF | 2005/02/18<br>12:33 |
| S61 | 26  | (US-20020014651-\$ or US-20020074589-\$ or US-20020179957-\$ or US-20030173644-\$ or US-20030183407-\$ or US-20030233882-\$ or US-20030233883-\$ or US-20040075158-\$ or US-20040129999-\$ or US-20040147087-\$ or US-20040150939-\$ or US-20040232520-\$).did. or (US-3860945-\$ or US-6211745-\$ or US-6218697-\$ or US-6278149-\$ or US-6437369-\$ or US-6495426-\$ or US-6583495-\$ or US-6818936-\$ or US-6825089-\$ or US-6835977-\$ or US-6837111-\$).did. or (JP-411145414-\$ or JP-58123757-\$).did. or (JP-11145414-\$ or US-6495426-\$).did. | US-PGPUB;<br>USPAT; JPO;<br>DERWENT                            | OR | OFF | 2005/07/26<br>14:43 |
| S62 | 6   | "976384".ap.  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT                            | OR | OFF | 2005/07/26<br>14:43 |
| S63 | 520 | (antifuse anti-fuse) and (MIM adj electrode ((capacitor electrode near10 (plug contact contact adj plug))) and ("257"/\$7.ccls. "365"/\$7.ccls. "438"/\$7.ccls.))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB        | OR | ON  | 2005/07/26<br>16:06 |
| S64 | 471 | (antifuse anti-fuse) and (MIM adj electrode ((capacitor electrode near10 (plug contact contact adj plug))) and ("257"/\$7.ccls. "438"/\$7.ccls.))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB        | OR | ON  | 2005/07/26<br>15:46 |



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| S65 | 4    | (antifuse anti-fuse) and (MIM adj electrode ((capacitor electrode near10 (plug contact contact adj plug))) and ("257"/\$7.ccls. "438"/\$7.ccls.) and variable near6 capacitor | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>15:44 |
| S66 | 501  | (antifuse anti-fuse anti adj fuse) and (DRAM FeRAM) and ("257"/\$7.ccls. "438"/\$7.ccls.)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>16:07 |
| S67 | 85   | (antifuse anti-fuse anti adj fuse) near10 (DRAM FeRAM) and ("257"/\$7.ccls. "438"/\$7.ccls.)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>16:30 |
| S68 | 501  | (antifuse anti-fuse anti adj fuse) and (DRAM FeRAM) and ("257"/\$7.ccls. "438"/\$7.ccls.)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>16:31 |
| S69 | 2508 | (DRAM FeRAM dynamic adj random adj access adj memory) and second adj (capacitor anti-fuse anti adj fuse)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>16:32 |
| S70 | 1510 | (DRAM FeRAM dynamic adj random adj access adj memory) and second adj (capacitor anti-fuse anti adj fuse) and ("257"/\$7.ccls. "438"/\$7.ccls.)                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>16:34 |
| S71 | 843  | (DRAM FeRAM dynamic adj random adj access adj memory) and second adj (capacitor anti-fuse anti adj fuse).ti,ab,clm. and ("257"/\$7.ccls. "438"/\$7.ccls.)                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>16:34 |
| S72 | 341  | (DRAM FeRAM dynamic adj random adj access adj memory).ti,ab,clm. and second adj (capacitor anti-fuse anti adj fuse).ti,ab,clm. and ("257"/\$7.ccls. "438"/\$7.ccls.)          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/26<br>16:35 |
| S73 | 0    | (antifuse anti-fuse) near6 protect \$3 near6 capacitor.ti,ab,clm.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/27<br>08:11 |
| S74 | 11   | (antifuse anti-fuse) near6 protect \$3 near6 capacitor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/27<br>08:25 |
| S75 | 129  | anti-fuse adj layer   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/27<br>08:30 |

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|-----|------|---|---|----|-----|---------------------|
| S76 | 0    | anti-fuse adj layer near6 stack\$3<br>near6 capacitor and memory.ti,ab,<br>clm.                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:31 |
| S77 | 0    | anti-fuse adj layer near6 stack\$3<br>near6 capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:31 |
| S78 | 0    | anti-fuse adj layer near6 ("on"<br>"over") near6 capacitor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:32 |
| S79 | 4    | anti-fuse near6 ("on" "over") near6<br>capacitor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:33 |
| S80 | 10   | (antifuse anti-fuse) near6 ("on"<br>"over") near6 capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:38 |
| S81 | 11   | (antifuse anti-fuse) near6 (protect<br>\$3) near6 capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:39 |
| S82 | 11   | (antifuse anti-fuse) near6 (protect<br>\$3) near6 capacitor and (antifuse<br>anti-fuse) and capacitor             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:41 |
| S83 | 11   | (antifuse anti-fuse) near6 (protect<br>\$3) near6 capacitor and (antifuse<br>anti-fuse) and (capacitor electrode) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>08:42 |
| S84 | 2429 | (memory DRAM FeRAM MIM adj<br>capacitor).ti,ab,clm. and (capacitor<br>near2 series)                               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>09:42 |
| S85 | 2405 | (memory DRAM FeRAM).ti,ab,clm.<br>and (capacitor near2 series)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>09:43 |
| S86 | 45   | (memory DRAM FeRAM).ti,ab,clm.<br>and (capacitor near2 series) and<br>(anti-fuse antifuse anti adj fuse)          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>09:44 |

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| S87 | 45  | (memory DRAM FeRAM).ti,ab,clm. and (capacitor near2 series) and (series near10 anti-fuse antifuse anti adj fuse) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>09:56 |
| S88 | 8   | "873969".ap.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>09:58 |
| S89 | 1   | fld near20 (antifuse anti-fuse anti adj fuse)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>10:00 |
| S90 | 159 | chalcogenide and memory.ti,ab,clm. and capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>10:27 |
| S91 | 189 | anti-fuse.ti,ab,clm. and capacitor and semiconductor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>13:37 |
| S92 | 614 | (257/530).OCLS.  | US-PGPUB;<br>USPAT                                      | OR | OFF | 2005/07/27<br>13:37 |
| S93 | 159 | S92 and capacitor and (DRAM FeRAM memory)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>13:52 |
| S94 | 2   | ("20040217441").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>13:53 |
| S95 | 1   | WO-200261826\$-\$.did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>13:54 |
| S96 | 0   | @ad="20020808" and lehmann.in.   | EPO; DERWENT  | OR | OFF | 2005/07/27<br>16:00 |
| S97 | 2   | ("20020088998").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>16:01 |
| S98 | 2   | ("4635345").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>16:06 |

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| S99  | 2    | ("5313424").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>17:02 |
| S100 | 2    | ("6495426").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>17:03 |
| S101 | 2    | jp-11145414\$-\$.did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>17:05 |
| S102 | 2005 | ((257/528) or (257/529) or<br>(257/530) or (257/202)).CCLS.                              | US-PGPUB;<br>USPAT                                      | OR | OFF | 2006/08/07<br>09:10 |
| S103 | 28   | S102 and anti-fuse near6 capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>17:19 |
| S104 | 88   | S102 and (antifuse anti-fuse) near6 capacitor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/27<br>17:06 |
| S105 | 3186 | ((257/528) or (257/529) or<br>(257/530) or (257/532) or<br>(257/312) or (257/202)).CCLS. | US-PGPUB;<br>USPAT                                      | OR | OFF | 2005/07/27<br>17:19 |
| S106 | 135  | S105 and (antifuse anti-fuse)<br>near10 capacitor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/27<br>17:19 |
| S107 | 2    | ("20040217441").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/21<br>13:33 |
| S108 | 9    | "751474".ap.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/21<br>13:34 |
| S109 | 2    | ("20020088998").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/21<br>13:42 |
| S110 | 4580 | ((257/202) or (257/528) or<br>(257/529) or (257/530) or<br>(257/532) or (257/312)).CCLS. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/21<br>13:42 |

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|------|-----|---|---|----|-----|---------------------|
| S111 | 2   | S110 and capacitor near2 variable and (plug contact) and (antifuse anti-fuse anti adj fuse) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/21<br>13:44 |
| S112 | 2   | ("20040217441").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>16:30 |
| S113 | 698 | (257/530).OCLS.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>16:54 |
| S114 | 641 | S113 and @ad<"20031224"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>16:55 |
| S115 | 641 | S113 and @ad<"20031224"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>17:11 |
| S116 | 210 | S113 and @ad<"20031224" and capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>18:03 |
| S117 | 2   | ("6495246").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>17:29 |
| S118 | 2   | ("6495426").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>17:31 |
| S119 | 2   | jp-11145414\$-\$did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>17:32 |
| S120 | 2   | ("6278149").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>17:46 |
| S121 | 2   | ("6,495,426").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>17:57 |

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|------|------|--|---|----|-----|---------------------|
| S122 | 0    | S120 and (antifuse anti-fuse anti adj fuse)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>17:58 |
| S123 | 153  | S113 and @ad<"20031224" and capacitor and (anti-fuse anti adj fuse antifuse)               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>18:47 |
| S124 | 163  | (257/312).OCLS.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>19:02 |
| S125 | 10   | S124 and stacked   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>18:56 |
| S126 | 0    | ("stackednear3 (MOSFETMOSMISFET)").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/06<br>19:03 |
| S127 | 1325 | stack\$3 near2 (MOSFET MOS MISFET)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>19:03 |
| S128 | 0    | stack\$3 near2 (MOSFET MOS MISFET) and plug and (variable adj capacitor varactor varacter) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>19:05 |
| S129 | 38   | (antifuse anti adj fuse anti-fuse) and (variable adj capacitor varactor varacter)          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>19:11 |
| S130 | 420  | 257/534  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>19:43 |
| S131 | 186  | anti-fuse near4 comprising.clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>19:48 |
| S132 | 34   | anti-fuse near4 metal.clm.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>19:59 |

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| S133 | 21  | metal adj anti-fuse  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:13 |
| S134 | 10  | metal adj anti-fuse and "12" and "14"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:17 |
| S135 | 0   | variable adj capacitor near10 (anti-fuse anti adj fuse antifuse)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:18 |
| S136 | 38  | (varactor varacter variable adj capacitor) and (anti-fuse anti adj fuse antifuse)                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:25 |
| S137 | 3   | (varactor varacter variable adj capacitor) near25 (anti-fuse anti adj fuse antifuse)                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:37 |
| S138 | 317 | (mosfet mos) near10 (anti-fuse anti adj fuse antifuse)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:38 |
| S139 | 257 | (mosfet mos) near5 (anti-fuse anti adj fuse antifuse)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:43 |
| S140 | 20  | anti-fuse near10 conformal\$2  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:51 |
| S141 | 0   | anti-fuse near5 conformal\$2 near20 (control controllable controllability)                                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:52 |
| S142 | 0   | anti-fuse near5 conformal\$2 near20 (reliable reliability control controllable controllability)            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>21:52 |
| S143 | 1   | (antifuse anti-fuse) near5 conformal\$2 near20 (reliable reliability control controllable controllability) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/06<br>22:12 |

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| S144 | 0    | interconnect adj metallization near10 (interlayer adj dielectric ILD) near10 (etch\$3 adj step)                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>22:13 |
| S145 | 4    | interconnect adj metallization near10 (interlayer adj dielectric ILD) near10 etch\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/06<br>22:13 |
| S146 | 2    | "20040217441".pn. and (ground adj line G)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/07<br>05:58 |
| S147 | 2667 | ((257/528) or (257/529) or (257/530) or (257/202) or (275/532) or (257/534) or (257/312)).OCLS.                                  | US-PGPUB;<br>USPAT                                      | OR | OFF | 2006/08/07<br>09:10 |
| S148 | 1    | S147 and (anti-fuses anti adj fuse). clm. and capacitor.clm. and insulati\$2.clm. and plug.clm. and (jung.in. dongbu.as.)        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/07<br>09:12 |
| S149 | 1    | S147 and (anti-fuse anti adj fuse antifuse).clm. and capacitor.clm. and insulati\$2.clm. and plug.clm. and (jung.in. dongbu.as.) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/07<br>09:13 |
| S150 | 1    | (anti-fuse anti adj fuse antifuse). clm. and capacitor.clm. and insulati\$2.clm. and plug.clm. and (jung.in. dongbu.as.)         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/07<br>09:13 |
| S151 | 4    | (anti-fuse anti adj fuse antifuse). clm. and capacitor.clm. and insulati\$2.clm. and plug.clm.                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/07<br>09:13 |
| S152 | 2    | ("20040217441").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/10/03<br>17:05 |
| S153 | 1    | (US-20040129999-\$).did.   | US-PGPUB  | OR | OFF | 2006/10/03<br>17:07 |
| S154 | 0    | (US-20040129999-\$).did. and (arrange arranged arrangement) near6 vertical\$2  | US-PGPUB  | OR | ON  | 2006/10/03<br>17:08 |
| S155 | 0    | (US-20040129999-\$).did. and (arrange arranged arrangement) and vertical\$2  | US-PGPUB  | OR | ON  | 2006/10/03<br>17:08 |



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| S156 | 2    | "20040217441".pn.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/27<br>13:07 |
| S157 | 5161 | ((257/202) or (257/312) or<br>(257/528) or (257/529) or<br>(257/530) or (257/532) or<br>(257/534)).OCLS. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/11/27<br>14:51 |
| S158 | 202  | S157 and (anti\$1fuse antri adj<br>fuse) and capacitor and substrate                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/27<br>14:55 |
| S159 | 142  | S157 and (anti\$1fuse antri adj<br>fuse) and capacitor and substrate<br>and @ad<"20021231"               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/27<br>14:55 |
| S160 | 162  | S157 and (anti\$1fuse antri adj<br>fuse) and capacitor and substrate<br>and @ad<"20031223"               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/11/27<br>14:55 |
| S161 | 2    | ("20040217441").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>09:45 |
| S162 | 2    | S161 and antifuse  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>09:44 |
| S163 | 1    | "5208177".pn. and anti\$1fuse  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>09:44 |
| S164 | 2    | "20040217441".pn. and anti\$fuse   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>10:29 |
| S166 | 737  | (257/530).OCLS.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>15:09 |
| S167 | 737  | (257/530).OCLS.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>11:38 |

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|------|-----|--|---|----|-----|---------------------|
| S168 | 14  | "low" adj pass near10 filter and<br>"high" adj pass near10 filter and<br>neutron adj detect\$3 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>12:22 |
| S169 | 0   | ("539419.ap.").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>12:22 |
| S170 | 6   | "538419".ap.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>12:23 |
| S171 | 2   | wo-2004064076\$-\$.did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>12:48 |
| S172 | 2   | wo-2004064076\$-\$.did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>12:48 |
| S173 | 737 | (257/530).OCLS.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>15:10 |
| S174 | 653 | S173 and @ad<"20031222"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>15:17 |
| S175 | 445 | S173 and @ad<"20031222" and<br>anti\$1fuse   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>15:58 |
| S176 | 227 | S173 and @ad<"20031222" and<br>anti\$1fuse and (capacitor mosfet<br>mos)                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>16:12 |
| S177 | 2   | ("20030198109").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>16:33 |
| S178 | 225 | anti\$1fuse near20 capacitor.ti,ab,<br>clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/16<br>16:34 |

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| S179 | 185 | anti\$1fuse near20 capacitor.ti,ab,<br>clm. and @ad<"20031223"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/16<br>16:35 |
| S180 | 4   | ((("5,208,177") or ("6,448,631")).<br>PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/17<br>07:08 |
| S181 | 2   | ("20040147087").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/17<br>07:10 |
| S182 | 4   | ((("20040217441") or<br>("20020088998")).PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/17<br>07:12 |
| S183 | 2   | ("6495426").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/17<br>07:17 |
| S184 | 2   | jp-11145414\$-\$did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>07:21 |
| S185 | 653 | 257/530.ccls. and<br>@ad<"20031223"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>07:52 |
| S186 | 449 | 257/530.ccls. and<br>@ad<"20031223" and (anti-fuze<br>antifuze anti-fuse antifuse)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>07:53 |
| S187 | 402 | 257/530.ccls. and<br>@ad<"20031223" and (anti-fuze<br>antifuze anti-fuse antifuse).ti,ab,<br>clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>08:18 |
| S188 | 402 | 257/530.ccls. and<br>@ad<"20031223" and (anti-fuze<br>antifuze anti-fuse antifuse).ti,ab,<br>clm. and (anti-fuze antifuze anti-<br>fuse antifuse)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>08:38 |
| S189 | 14  | 257/530.ccls. and<br>@ad<"20031223" and (anti-fuze<br>antifuze anti-fuse antifuse).ti,ab,<br>clm. and (anti-fuze antifuze anti-<br>fuse antifuse) and wider near10<br>(anti-fuse antifuse) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>09:25 |

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|------|-----|---|---|----|----|---------------------|
| S190 | 153 | ((anti-fuze antifuze anti-fuse antifuse) near4 connect\$3 near4 gate) and (anti-fuze antifuze anti-fuse antifuse) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>11:23 |
| S191 | 408 | (tiw titanium adj tungsten tungsten adj titanium) near4 barrier near4 (alumin\$1um Al copper Cu)                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>11:24 |
| S192 | 2   | (tiw titanium adj tungsten tungsten adj titanium) near2 barrier near2 (alumin\$1um Al copper Cu) and anti-fuse    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>11:26 |
| S193 | 92  | (tiw titanium adj tungsten tungsten adj titanium) near2 barrier near2 (alumin\$1um Al copper Cu)                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>12:57 |
| S194 | 0   | ((tiw titanium adj tungsten tungsten adj titanium) near2 barrier near2 (alumin\$1um Al copper Cu)) near10 oxide   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>12:58 |
| S195 | 46  | ((tiw titanium adj tungsten tungsten adj titanium) near2 barrier) near10 oxide                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>12:58 |
| S196 | 7   | ((tiw titanium adj tungsten tungsten adj titanium) near2 barrier) near10 oxide near10 (alumin\$1um copper Al Cu)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>12:58 |
| S197 | 140 | bit\$1line and word\$1line and (antifuse anti-fuse) and (MOS MOSFET)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>18:18 |
| S198 | 31  | bit\$1line and word\$1line and (antifuse anti-fuse) and (MOS MOSFET) and programmable adj gate adj array          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>18:25 |
| S199 | 61  | bit\$1line and word\$1line and (MOS MOSFET) and programmable adj gate adj array                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>18:29 |
| S200 | 28  | bit\$1line and word\$1line and programmable adj gate adj array.ti, ab,clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/17<br>18:37 |

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|------|------|---|---|----|-----|---------------------|
| S201 | 11   | bit\$1line near4 word\$1line near4 perpendicular and (memory programmable adj2 gate) adj array. ti,ab,clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>18:40 |
| S202 | 16   | bit\$1line near6 word\$1line near6 perpendicular and (memory programmable adj2 gate) adj array. ti,ab,clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/17<br>18:40 |
| S203 | 5397 | ((257/202) or (257/312) or (257/528) or (257/529) or (257/530) or (257/532) or (257/534)).CCLS.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/18<br>08:14 |
| S204 | 338  | S203 and (capacitor anti-fuse anti-fuze antifuse antifuze anti (fuse fuze)) and ((inter\$1layer inter adj layer) adj dielectric ILD insulati\$2 adj (film layer)) and plug and (interconnect wire wiring) and (semiconductor silicon si)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/18<br>08:19 |
| S205 | 236  | S203 and (capacitor anti-fuse anti-fuze antifuse antifuze anti (fuse fuze)) and ((inter\$1layer inter adj layer) adj dielectric ILD insulati\$2 adj (film layer)) and plug and (interconnect wire wiring) and (semiconductor silicon si) and @ad<"20031223"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/18<br>08:25 |
| S206 | 6    | (dongbu.as. dongbuanam.as. (jung near1 kyung).in.) and (capacitor anti-fuse anti-fuze antifuse antifuze anti (fuse fuze)) and ((inter\$1layer inter adj layer) adj dielectric ILD insulati\$2 adj (film layer)) and plug and (interconnect wire wiring) and (semiconductor silicon si) and @ad<"20031223"         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/18<br>08:26 |
| S207 | 19   | (dongbu.as. dongbuanam.as. (jung near1 kyung).in.) and (capacitor anti-fuse anti-fuze antifuse antifuze anti (fuse fuze)) and ((inter\$1layer inter adj layer) adj dielectric ILD insulati\$2 adj (film layer)) and plug and (interconnect wire wiring) and (semiconductor silicon si)                            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/18<br>08:31 |
| S208 | 61   | (dongbu.as. dongbuanam.as. (jung near1 kyung).in.) and (capacitor anti-fuse anti-fuze antifuse antifuze anti (fuse fuze)).clm. and ((inter \$1layer inter adj layer) adj dielectric ILD insulati\$2 adj (film layer))"clm." and plug.clm. and (interconnect wire wiring).clm. and (semiconductor silicon si).clm. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/18<br>08:32 |

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|------|-----|--|---|----|-----|---------------------|
| S209 | 3   | (dongbu.as. dongbuanam.as. (jung near1 kyung).in.) and (capacitor anti-fuse anti-fuze antifuse antifuze anti (fuse fuze)).clm. and ((inter \$1layer inter adj layer) adj dielectric ILD insulati\$2 adj (film layer)).clm. and plug.clm. and (interconnect wire wiring).clm. and (semiconductor silicon si).clm. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2007/05/18<br>08:32 |
| S210 | 4   | ((("5248632") or ("5533635"))).PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | OFF | 2007/07/27<br>10:11 |
| S211 | 1   | (US-20040129999-\$).did.   | US-PGPUB  | OR | ON  | 2007/12/09<br>11:20 |
| S212 | 4   | ((("5248632") or ("5533635"))).PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/12/09<br>11:43 |
| S213 | 0   | passivation adj layer and contact adj plug and anti-fuse.ti,ab,clm.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/09<br>11:43 |
| S214 | 46  | passivation adj layer and anti-fuse.ti,ab,clm.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/09<br>11:44 |
| S215 | 31  | passivation adj layer and anti-fuse.ti,ab,clm. and @ad<"20021231"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/09<br>13:57 |
| S216 | 767 | (257/530).OCLS.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/12/09<br>13:58 |
| S217 | 592 | S216 and @ad<"20021231"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/09<br>14:00 |
| S218 | 1   | (US-20040129999-\$).did.   | US-PGPUB  | OR | ON  | 2007/12/09<br>15:36 |

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| S219 | 0     | (US-20040129999-\$).did. and (aligned alignment self-aligned self-alignment)   | US-PGPUB  | OR | ON  | 2007/12/09<br>16:08 |
| S220 | 5704  | ((257/202) or (257/312) or (257/528) or (257/529) or (257/530) or (257/532) or (257/534)).CCLS.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/12/09<br>16:09 |
| S221 | 6     | S220 and third adj (contact plug) and (anti\$1fuse "anti" adj "fuse") and capacitor  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/09<br>16:10 |
| S222 | 6     | S220 and (three third) adj (contact plug) and (anti\$1fuse "anti" adj "fuse") and capacitor  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/09<br>16:12 |
| S223 | 1     | ((jung near1 (kyung adj yun) kyung-yun).in. (dongbu dongbuanam).as.) and (three third) adj (contact plug) and (anti \$1fuse "anti" adj "fuse") and capacitor       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/09<br>16:14 |
| S224 | 4     | ((("5248632") or ("5533635")).PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/02<br>13:40 |
| S225 | 6     | ((("5248632") or ("5533635") or ("5923075")).PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/02<br>13:41 |
| S226 | 11707 | ((257/296) or (257/303) or (257/306) or (257/307) or (257/312) or (257/313) or (257/516) or (257/529) or (257/530) or (257/532) or (257/534) or (361/306.3)).CCLS. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/02<br>14:59 |
| S227 | 58    | S226 and (stacking stacked) near2 capacitor and contact adj hole and conformal   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>15:00 |
| S228 | 50    | S226 and (stacking stacked) near2 capacitor and contact adj hole and conformal and @ad< "20031223"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>15:01 |

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| S229 | 3     | anti\$1fuse near4 metal and variable near3 capacitor   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>16:20 |
| S230 | 851   | anti\$1fuse near4 metal  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>16:21 |
| S231 | 530   | anti\$1fuse near2 metal  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>16:21 |
| S232 | 1     | (US-20040129999-\$).did.   | US-PGPUB  | OR | ON  | 2008/06/02<br>16:38 |
| S233 | 1     | S232 and (anti-fuse antifuse) near4 (metal metallic insulator insulating)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>16:38 |
| S234 | 68    | S226 and (stacking stacked) near2 capacitor and contact adj ("via" hole) and conformal   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>17:45 |
| S235 | 60    | S226 and (stacking stacked) near2 capacitor and contact adj ("via" hole) and conformal and @ad<"20031223"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/02<br>17:46 |
| S236 | 11711 | ((257/296) or (257/303) or (257/306) or (257/307) or (257/312) or (257/313) or (257/516) or (257/529) or (257/530) or (257/532) or (257/534) or (361/306.3)).CQLS. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/03<br>18:14 |
| S237 | 149   | S236 and conformal and second adj insulati\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/03<br>18:16 |
| S238 | 114   | S236 and conformal and second adj insulati\$2 and @ad<"20031223"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/03<br>18:16 |



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| S239 | 99  | S236 and conformal and second adj insulati\$2 and @ad<"20031223" and capacitor                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/03<br>18:51 |
| S240 | 8   | S236 and conformal and second adj insulati\$2 and @ad<"20031223" and capacitor and anti\$1fuse | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/03<br>18:53 |
| S241 | 16  | conformal and second adj insulati \$2 and @ad<"20031223" and capacitor and anti\$1fuse         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/03<br>18:55 |
| S242 | 2   | ("5,290,734").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/03<br>19:18 |
| S243 | 0   | ("6124165.pn.and(anti-fuseantifuse)").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/04<br>08:41 |
| S244 | 1   | "6124165".pn. and (anti-fuse anti \$1fuse)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>08:42 |
| S245 | 2   | ("6495426").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/04<br>10:03 |
| S246 | 2   | jp-11145414\$-\$did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:03 |
| S247 | 951 | PROM and anti\$1fuse   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:11 |

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| S248 | 50   | PROM and anti\$1fuse and plug and capacitor and @ad<"20031223"          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>10:13 |
| S249 | 1    | (US-20040129999-\$).did.  | US-PGPUB  | OR | ON | 2008/06/04<br>10:18 |
| S250 | 1    | (US-20040129999-\$).did. and anti\$1fuse                                | US-PGPUB  | OR | ON | 2008/06/04<br>10:18 |
| S251 | 7    | anti\$1fuse near3 titanium adj nitride                                  | US-PGPUB  | OR | ON | 2008/06/04<br>10:21 |
| S252 | 19   | anti\$1fuse near3 titanium adj nitride                                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>10:23 |
| S253 | 2    | dongbu.as. and anti\$1fuse  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>10:25 |
| S254 | 0    | capacitors near4 "in series" and semiconductor and conformal            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>13:28 |
| S255 | 61   | capacitors near4 "in series" and semiconductor                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>13:28 |
| S256 | 0    | capacitors near4 "in series" and semiconductor and contact adj hole     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>13:29 |
| S257 | 1571 | stack\$3 near3 capacitors and conformal                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>13:30 |
| S258 | 1449 | stack\$3 near3 capacitors and conformal and substrate and semiconductor | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/04<br>13:30 |

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| S259 | 1285 | stack\$3 near1 capacitors and conformal and substrate and semiconductor                                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>13:30 |
| S260 | 228  | stack\$3 near1 capacitors and conformal near4 insulati\$2 and substrate and semiconductor                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>13:31 |
| S261 | 183  | stack\$3 near1 capacitors and conformal near4 insulati\$2 and substrate and semiconductor and @ad<"20031223" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>13:31 |
| S262 | 1    | "20020163029".pn. and semiconductor  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>14:25 |
| S263 | 1    | "20020163029".pn. and (semiconductor substrate)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>14:26 |
| S264 | 147  | stacked adj capacitors.ti. and stacked adj capacitors.clm. and @ad<"20031223"                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/06/07<br>18:52 |
| S265 | 2    | ("6482695").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/07<br>19:02 |
| S266 | 2    | JP-2001111008\$-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>19:03 |
| S267 | 1    | (JP-2001111008-\$).did.  | JPO   | OR | ON  | 2008/06/07<br>19:05 |
| S268 | 3    | stacked adj capacitors.ti. and stacked adj capacitors.clm. and @ad<"20031223" and anti\$1fuse                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/06/07<br>19:16 |

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| S269 | 17  | capacitors.ti. and capacitors.clm. and @ad<"20031223" and anti \$1fuse.ti,ab,clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>19:17 |
| S270 | 5   | capacitors.ti. and capacitors.clm. and @ad<"20031223" and anti \$1fuse.ti,ab,clm. and (lower bottom) adj electrode and (upper top) adj electrode     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>19:20 |
| S271 | 0   | "capacitor.ti,ab.." and capacitor.clm. and @ad<"20031223" and anti \$1fuse.ti,ab,clm. and (lower bottom) adj electrode and (upper top) adj electrode | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>19:22 |
| S272 | 12  | capacitor.ti,ab. and capacitor.clm. and @ad<"20031223" and anti \$1fuse.ti,ab,clm. and (lower bottom) adj electrode and (upper top) adj electrode    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>19:22 |
| S273 | 27  | capacitor.ti,ab,clm. and @ad<"20031223" and anti \$1fuse.ti,ab,clm. and (lower bottom) adj electrode and (upper top) adj electrode                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>19:25 |
| S274 | 32  | capacitor.ti,ab,clm. and @ad<"20031223" and (anti adj fuse anti \$1fuse).ti,ab,clm. and (lower bottom) adj electrode and (upper top) adj electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>19:25 |
| S275 | 1   | "6482695".pn. and gate   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/07<br>21:12 |
| S276 | 371 | dongbu.as. and capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/07<br>21:28 |
| S277 | 0   | dongbu.as. and capacitor and (anti-fuse anti adj fuse)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/07<br>21:28 |
| S278 | 954 | capacitor and (anti-fuse anti adj fuse)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/07<br>21:28 |
| S279 | 576 | capacitor and (anti-fuse anti adj fuse) and @ad<"20031223"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/07<br>21:29 |

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|------|-----|---|---|----|-----|---------------------|
| S280 | 62  | capacitor and (anti-fuse anti adj fuse) and @ad<"20031223" and conformal\$2   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/06/07<br>21:30 |
| S281 | 792 | capacitor and (anti-fuse anti adj fuse) and @ad<"20031223"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/06/07<br>21:37 |
| S282 | 2   | ("20040087098").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/07<br>21:49 |
| S283 | 0   | ("20040087098").PN.   | USPAT; USOCR;<br>FPRS; EPO;<br>JPO; IBM_TDB                             | OR | OFF | 2008/06/07<br>22:15 |
| S284 | 522 | capacitor and (anti-fuse anti adj fuse) and @ad<"20031223"  | USPAT; EPO;<br>JPO; IBM_TDB   | OR | ON  | 2008/06/07<br>22:15 |
| S285 | 18  | (US-6852611-\$ or US-6812542-\$ or US-6730573-\$ or US-6709918-\$ or US-6665207-\$ or US-6584010-\$ or US-6563157-\$ or US-6506634-\$ or US-6444558-\$ or US-6351406-\$ or US-6306689-\$ or US-6294474-\$ or US-6180503-\$ or US-6154410-\$ or US-6124165-\$ or US-5886392-\$ or US-5266829-\$).did. or (JP-2002334928-\$).did. | USPAT; JPO  | OR | ON  | 2008/06/07<br>22:58 |
| S286 | 0   | (Cu copper) near2 barrier near2 (layer film) near10 plug near10 (interlayer adj dielectric)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>23:41 |
| S287 | 4   | (Cu copper) near2 barrier near2 (layer film) near10 (contact adj hole) near10 (interlayer adj dielectric)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/07<br>23:43 |
| S288 | 6   | ("6861686").URPN.   | USPAT   | OR | ON  | 2008/06/07<br>23:44 |
| S289 | 1   | "20020037643".PN.   | US-PGPUB  | OR | ON  | 2008/06/07<br>23:45 |
| S290 | 1   | "20020048840".PN.   | US-PGPUB  | OR | ON  | 2008/06/07<br>23:46 |
| S291 | 2   | jp-2002334928\$-\$).did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | OFF | 2008/06/08<br>10:02 |

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| S292 | 225  | barrier adj (layer film) near20 (copper Cu) near20 ("low" adj (resistance resistivity))   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>10:34 |
| S293 | 65   | barrier adj (layer film) near10 (copper Cu) near10 ("low" adj (resistance resistivity)) and @ad<"20020101"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>10:34 |
| S294 | 0    | barrier adj (layer film) near10 (copper Cu) near10 ("low" adj (resistance resistivity)) and @ad<"20020101" and anti-fuse                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>10:38 |
| S295 | 0    | barrier adj (layer film) near10 (copper Cu) near10 ("low" adj (resistance resistivity)) and @ad<"20020101" and (antifuse anti-fuse anti adj fuse) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>10:38 |
| S296 | 2    | barrier adj (layer film) near10 (copper Cu) near10 ("low" adj (resistance resistivity)) and @ad<"20020101" and (contact adj plug)                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>10:39 |
| S297 | 124  | method adj2 making near3 (anti-fuse antifuse)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>12:00 |
| S298 | 8233 | ((257/202) or (257/312) or (257/528) or (257/529) or (257/530) or (257/532) or (257/534) or (438/128) or (438/130) or (438/131)).CCLS.            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/08<br>12:02 |
| S299 | 18   | S298 and capacitor and (anti\$1fuse anti adj fuse) and contact adj plug and (semiconductor silicon)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>12:04 |
| S300 | 3    | capacitor.clm. and (anti\$1fuse anti adj fuse).clm. and contact adj plug. clm. and (semiconductor silicon). clm.                                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/08<br>12:06 |
| S301 | 1    | (JP-2002334928-\$).did.   | JPO   | OR | ON  | 2008/06/08<br>14:54 |

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| S302 | 2   | jp-2002334928\$-\$.did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/06/14<br>19:11 |
| S303 | 2   | JP-2002334928\$-\$.did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/19<br>12:17 |
| S304 | 7   | fukuzumi.in. and fuse and gate and capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/19<br>15:46 |
| S305 | 2   | fukuzumi.in. and (word adj line wordline) and fuse and gate and capacitor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/19<br>15:48 |
| S306 | 0   | fukuzumi.in. and (word adj line wordline) and gate near4 (connect connection connexion) and fuse and gate and capacitor                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/19<br>15:51 |
| S307 | 412 | (word adj line wordline) and gate near4 (connect connection connexion) and fuse and gate and capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/19<br>15:51 |
| S308 | 624 | (word adj line wordline) and gate near4 (connect connection connexion) and fuse and gate and capacitor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/19<br>15:51 |
| S309 | 40  | (word adj line wordline) near4 fuse and gate and capacitor and ("257"/\$7.ccls. "438"/\$7.ccls.)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/19<br>15:58 |
| S310 | 27  | (word adj line wordline) near4 fuse and gate and capacitor and ("257"/\$7.ccls. "438"/\$7.ccls.) and @ad<"20021231"                              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/19<br>15:59 |
| S311 | 27  | (word adj line wordline) near4 fuse and gate and capacitor and ("257"/\$7.ccls. "438"/\$7.ccls.) and @ad<"20021231" and (word adj line wordline) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/20<br>12:26 |
| S312 | 109 | anti\$1fuse and conformal and capacitor and semiconductor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/20<br>13:03 |

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| S313 | 64   | anti\$1fuse and conformal and capacitor and semiconductor and @ad<"20031223"                            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>13:04 |
| S314 | 1    | anti\$1fuse and conformal and capacitor and semiconductor and @ad<"20031223" and convex and concave     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>13:33 |
| S315 | 1017 | (fuse anti\$1fuse) near4 (connected connection) near4 gate  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>14:38 |
| S316 | 68   | (fuse anti\$1fuse) near4 (connected connection) near4 gate and (257/529.ccls. 257/530.ccls.)            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>14:38 |
| S317 | 32   | anti\$1fuse and capacitor near4 mim   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>15:08 |
| S318 | 155  | anti\$1fuse and capacitor near4 (stack stacking stacked)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>15:18 |
| S319 | 152  | anti\$1fuse and capacitor near4 (stack stacking stacked) and (semiconductor silicon)                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>15:19 |
| S320 | 99   | anti\$1fuse and capacitor near4 (stack stacking stacked) and (semiconductor silicon) and @ad<"20031223" | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON  | 2008/12/20<br>15:19 |
| S321 | 2    | ("5324681").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/20<br>15:50 |
| S322 | 86   | dram and optimized adj process adj flow   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/20<br>16:00 |

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